Title (en)

Head actuator for disc drive and storage system.

Title (de)

Kopfbetätigungsorgan für Plattenantrieb und Speichervorrichtung.

Title (fr)

Organe de manoeuvre de tête pour entraînement à disque et système de stockage.

Publication

EP 0387147 A2 19900912 (EN)

Application

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Priority

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Abstract (en)

A head actuator for a disc drive and storage system having a plurality of discs and a plurality of read/write heads positioned on upper and lower surfaces of the discs. The head actuator includes a plurality of load springs (33). Each load spring (33) has a plurality of through holes located at its inner end. A head (32) is mounted to the outer end of each load spring for positioning the head on the upper and lower surface of a disc (44). The head actuator further includes an integrally formed head arm assembly. The head arm assembly has a plurality of parallel head arms (31 min) integrally formed at their inner ends to a main head arm body member and extended in parallel therefrom such that they can be positioned between corresponding discs of the disc drive and storage system. Each head arm (31 min) is formed with a plurality of through holes (36) in its outer end for alignment with a plurality of corresponding through holes formed in each head load spring (33) at its inner end. The load springs are connected to opposite sides of the head arms using the aligned through holes of the load springs and head arms. The head load springs are sequentially connected to the head arms in an assembly method using a plurality of screws (38) for directly connecting the outer ends of the head arms to the inner ends of the load springs via two series of through holes of the head arms and the load springs (38).

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